

CLAIMS

1. A device (1) for realizing a predetermined orientation of singularized work pieces (3) being transported on a sliding surface (2) by means of an air current (4) that acts upon the work pieces (3), characterized in that the air current (4) has an effective direction (5) that is inclined relative to the moving direction (6) of the work pieces (3) in such a way that an air current (7) resulting from the effective air current (8) and the air current (9) caused by the movement of the work pieces (3) extends perpendicular to the moving direction (6) of the work pieces (3).
2. The device (1) according to Claim 1, characterized in that at least one other air current (21) acts upon the work pieces (3) in addition to the main air current (4) acting upon the work pieces (3), wherein this other air current is directed in the moving direction (6) of the work pieces (3).
3. The device (1) according to Claim 1 or 2, characterized in that the air current (4) is realized in the form of an air cushion that traverses the sliding surface (2).
4. The device (1) according to at least one of the preceding claims, characterized in that the sliding surface (2) is realized in the form of a flow element (16).
5. The device (1) according to Claim 4, characterized in that the flow element (16) is adjustable.
6. The device (1) according to at least one of the preceding claims, characterized in that a perforated

plate (17) arranged above the flow element (16) is assigned to the sliding surface (2).

7. The device (1) according to at least one of the preceding claims, characterized in that at least one blower (10) or fan is arranged on the side of the sliding surface (2) that faces away from the work piece (3).
8. The device (1) according to at least one of the preceding claims, characterized in that a flow element (12) arranged between the blower (10) and the sliding surface (2) evenly distributes the blower air (11) over the sliding surface (2).
9. The device (1) according to at least one of the preceding claims, characterized in that a second flow element (14) arranged between the first flow element (12) and the sliding surface (2) makes it possible to adjust different flow speeds over the sliding surface (2).
10. The device (1) according to Claim 8 or 9, characterized in that the flow elements (12, 14) respectively contain at least two perforated plates (18, 19) that lie on top of one another and can be moved relative to one another.
11. The device (1) according to at least one of Claims 8-10, characterized in that the flow elements (12, 14) are respectively provided with at least one adjusting element.